Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

- 1 (Currently Amended) A method for evidencing payment of indicia using secret key cryptography in a system including a plurality of indicia generating devices that are divided into groups, each group corresponding to a respective geographic designation, each of the indicia generating devices for generating and printing indicia on a media that is to be received at a plurality of establishments, wherein the establishments are associated with different geographic designations, the method comprising:
 - (a) assigning a set of verification keys from among a plurality of verification keys to each indicia generating device in each of the groups, wherein each set of verification keys assigned to the groups is encrypted as a function of respective geographic designations, and distributing the assigned set of verification keys to the devices in the corresponding indicia generating device group via a network;
 - (b) associating a key ID with each of the verification keys and encrypting each key ID as a function of the same geographic designation used to encrypt the corresponding verification key, and distributing the key IDs to the devices in the corresponding indicia generating device group via the network;
 - (c) distributing to each one of the establishments in the respective geographic designations via the network, the set of verification keys and associated key

- ID's that were encrypted as a function of the geographic designation associated with the establishment;
- (d) assigning to each group of indicia generating devices, at least one respective secret key from a set of secret keys, and distributing the assigned secret key to each indicia generating device in each group of indicia generating devices;
- (d)(e) using one of the indicia generating devices to generate indicia for media destined for a particular one of the establishments, and evidencing the indicia by
 - (i) generating one of the verification keys and the corresponding key ID assigned to indicia generating device's group based on as a function of the assigned secret key and the geographic designation associated with the particular establishment, and
 - (ii) using the generated verification key to create a digital signature, and digitally signing the indicia by including the digital signature and the generated key ID in the indicia; and
- (e)(f) upon receiving the media at the particular establishment, verifying the indicia on the media using the key ID on the indicia and the distributed verifications keys to compute a digital signature, and comparing the computed digital signature with the digital signature on the indicia.
- 2 (Currently Amended) The method of claim 1 further including the steps of:
 assigning a secret key to each of the groups, and
 encrypting the verification keys assigned to each group as a function of the secret

key and the different geographic designations.

- 3 (Original) The method of claim 2 further including the steps of:
 - generating a master key; and

encrypting the key ID as a function of the master key, the geographic designation, and a designation of the group.

- 4 (Original) The method of claim 3 further including the step of generating and printing indicia for postage on a mail piece that is to be received at a plurality of distribution centers.
- 5 (Original) The method of claim 4 further including the step of verifying the indicia at a destination distribution center.
- 6 (Original) The method of claim 4 further including the step of verifying the indicia at an originating distribution center.
- 7 (Original) The method of claim 3 further including the step of using zip codes to represent the geographic designations.
- 8 (Original) The method of claim 1 further including the step of generating and printing indicia for tickets.
- 9 (Currently Amended) A method for evidencing payment of postage using secret key

cryptography in a system including a plurality of postage generating devices that are divided into groups, each group corresponding to a respective postal destination, each of the postage generating devices for generating postage indicia for mail destined for predetermined postal destinations, the method comprising:

- (a) assigning a set of verification keys from among a plurality of verification keys to each indicia generating device in each of the groups, wherein each set of verification keys assigned to each of the groups is encrypted as a function of a respective postal destination, and distributing the assigned set of verification keys to the devices in the corresponding indicia generating device group via a network;
- (b) associating a key ID with each of the verification keys and encrypting each key ID as a function of the same destination used to encrypt the corresponding verification key, and distributing the key-IDs to the devices in the corresponding indicia generating device group via the network;
- (c) requiring that verifiers of the postage indicia perform postal verification at the plurality of destinations, where each verifier services a respective destination;
- (d) distributing to each respective destination verifier via the network, the verification keys and the key ID's that were encrypted as a function of the corresponding destination; and
- (e) assigning to each group of indicia generating devices, at least one respective

 secret key from a set of secret keys, and distributing the assigned secret key

 to each indicia generating device in each group of indicia generating devices;

- (e)(f) requiring each of the postage generating devices to evidence the postage indicia for a mail piece destined for a particular destination by
 - (i) generating one of the verification keys and the corresponding key ID assigned to its group based on as a function of the assigned secret key and that particular destination, and
 - (ii) using the generated verification key to create a digital signature, and digitally signing the indicia by including the digital signature and the generated key ID on the indicia, such that when the mail is received at the predetermined destination, the verifier uses the key ID on the indicia and the distributed verifications keys to compute a digital signature, and compares the computed digital signature with the digital signature on the postage indicia to verify the postage indicia.
- 10 (Currently Amended) The method of claim 9 further including the steps of:

assigning a secret key to each of the groups, and

encrypting the verification keys assigned to each group as a function of the secret key and the plurality of destinations.

11 (Original) The method of claim 10 further including the steps of:

generating a master key; and

encrypting the key ID as a function of the master key, the destination, and a designation of the group.

- 12 (Original) The method of claim 11 further including the step of performing postage verification onsite at a destination distribution center.
- 13 (Original) The method of claim 12 further including the step of performing postage verification by a third party that is in remote communication with the destination distribution center.
- 14 (Original) The method as in claim 13 wherein the verifier further performs the steps of using the key ID to retrieve the corresponding verification key used to originally create the digital signature.
- 15 (Currently Amended) A system for evidencing payment of postage using secret key cryptography, comprising:
 - a plurality of postage generating devices that are divided into groups, each group corresponding to a respective postage destinations, each of the postage generating devices for generating postage indicia for mail destined for predetermined postal destinations;
 - a plurality of distribution centers for verifying the postage indicia, where each distribution center services at least one of the postage destinations; and
 - a key distribution center in communication with the plurality of postage generating devices and with the plurality of distribution centers, the key distribution center for performing the functions of:
 - assigning a set of verification keys from among a plurality of verification keys to each indicia generating device in each of

the groups is encrypted as a function of respective destinations, and for associating a key ID with each of the verification keys and encrypting each key ID as a function of the same destination used to encrypt the corresponding verification key, and

distributing via a network to each of the plurality of distribution centers and the postage generating devices in each group of postage generating devices, the set of verification keys and the key ID's encrypted as a function of the corresponding destination, and

generating at least one secret key for each of the postage generating

devices groups, and distributing the secret key to each of the

postage generating devices within each of the groups;

wherein in response to a request to generate indicia for a mail piece destined for a particular destination, each of the postage generating devices generates uses one of the verification keys and the corresponding key ID assigned to its group as a function of the secret key, and uses the generated verification key and the key ID to create a digital signature for the indicia.

16 (Currently Amended) The system of claim 15 wherein the key distribution center further generates a master key, and a and the secret key for each of the postage generating devices groups, and distributes the master key and the secret key to the respective postage generating devices within each of the groups.

devices within each of the groups.

- 17 (Original) The system of claim 16 wherein the verification keys assigned to each group are encrypted as a function of the secret key and the plurality of destinations.
- 18 (Original) The system of claim 17 further wherein the key ID is encrypted as a function of the master key, the destination, and a designation of the group.
- 19 (Original) The system of claim 18 wherein verification of the postage is performed onsite at the destination distribution centers.
- 20 (Original) The system of claim 19 wherein verification of the postage is performed by a third party that is in remote communication with the destination distribution centers.
- 21 (Original) The system as in claim 20 wherein the indicia is verified by using the key ID from the indicia to retrieve the corresponding verification key used to originally create the digital signature, wherein the retrieved verification key is used to compute the digital signature for the indicia and the computed digital signature is compared with the digital signature from the indicia.
- 22 (Currently Amended) A computer-readable media containing program instructions for evidencing payment of postage using secret key cryptography in a system including a plurality of postage generating devices that are divided into groups, each group

- (a) assigning a set of verification keys from among a plurality of verification keys to each indicia generating device in each of the groups, wherein each set of verification keys assigned to the groups is encrypted as a function of respective postal destinations, and distributing the assigned set of verification keys to the devices in the corresponding indicia generating device group via a network;
- (b) associating a key ID with each of the verification keys and encrypting each key ID as a function of the same destination used to encrypt the corresponding verification key, and distributing the key IDs to the devices in the corresponding indicia generating device group via the network;
- (c) requiring that verifiers of the postage indicia perform postal verification at the plurality of destinations, where each verifier services a respective destination;
- (d) distributing to each respective destination verifier via the network, the verification keys and the key ID's that were encrypted as a function of the corresponding destination; and
- (e) assigning to each group of indicia generating devices, at least one respective secret key from a set of secret keys, and distributing the assigned secret key to each indicia generating device in each group of indicia generating devices;
- (e)(f) requiring each of the postage generating devices to evidence the postage indicia for a mail piece destined for a particular destination using by generating one of the verification keys and the corresponding key ID assigned to its group as a function of the assigned secret key, and using one

of the verification keys and the corresponding key ID assigned to its group one of the verification keys and the corresponding key ID assigned to its group to create a digital signature for the postage indicia.

23 (Currently Amended) The computer-readable media of claim 22 further including the instructions of:

assigning a secret key to each of the groups, and

encrypting the verification keys assigned to each group as a function of the secret key and the plurality of destinations.

24 (Original) The computer-readable media of claim 23 further including the instructions of:

generating a master key; and

encrypting the key ID as a function of the master key, the destination, and a designation of the group.

- 25 (Original) The computer-readable media of claim 24 further including the instruction of performing postage verification onsite at a destination distribution center.
- 26 (Original) The computer-readable media of claim 25 further including the instruction of performing postage verification by a third party that is in remote communication with the destination distribution center.

performing postage verification by a third party that is in remote communication with the destination distribution center.

27 (Original) The computer-readable media as in claim 26 further including the instructions of using the key ID to retrieve the corresponding verification key used to originally create the digital signature.

28 (Currently Amended) A method for generating and distributing cryptographic keys for postage evidencing and verification in a system where mail is destined for predetermined postal destinations—, wherein each of the postal destinations is serviced by a postal distribution center, the method comprising:

- (a) creating a master secret key K;
- (b) dividing a plurality of postage generating devices (PGDs) that generate postage indicia for mail into n groups G_i , i = 1,...n;
- (c) assigning each PDG group, G_i , a secret key K_i ;
- (d) generating a set of n verification keys, V_i^{Dest} , i = 1,...,n, for each PGD group G_i , where each of the verification keys is calculated as a function of a respective postal destination (Dest);
- (e) generating a set of key ID's, I_i^{Dest} , i = 1,...,n, where each key ID corresponds to one of the verification keys and is also generated as a function the same postal destination used to calculate the corresponding verification key;
- (f) transferring to each distribution center via a network, the verification keys V_i^{Dest} and key ID's I_i^{Dest} that were calculated as a function of the destination

one of the verification keys based on the secret key K_i and the predetermined postal destination, and generates one of the key ID's based on the master secret key K to create a digital signature for the indicia.

29 (Original) The method of claim 28 further including the step of computing each verification key V_i^{Dest} as a one-way function H of the PGD group key K_i and a designation of the postal destination:

$$V_i^{Dest} = H(K_i, Dest)$$
.

30 (Original) The method of claim 29 further including the step of using ZIP codes to designate the plurality of postal destinations.

31 (Original) The method of claim 30 further including the step of computing each of the key ID's as a one-way function H of the PGD group, G_i , the master secret key, K, and a designation of the postal destination, Dest:

$$I_i^{Dest} = H(K, Dest, G_i)$$
.

- 32 (Original) A method for verifying postage indicia a mail piece received at a postal distribution center that services a particular postal region, comprising the steps of:
 - (a) receiving and storing a set of verification keys V_i^{Dest} and a set of key ID's I_i^{Dest} identifying the verification keys, wherein the verification keys and the key ID's were generated as a function of the postal region;

- (b) in response to receiving the mail piece, determining the mail piece's postal region;
- (c) if the distribution center is not within the mail piece's destination region, transferring the mail piece to the distribution center within the mail piece's postal region; and
- (d) if the distribution center is within the mail piece's postal region, verifying the postage indicia by
 - (i) reading a digital signature and a key ID from the indicia,
 - (ii) using the key ID read from the indicia to retrieve the corresponding verification key from the stored set of verification keys,
 - (iii) using the retrieved verification key to compute a digital signature for the indicia, and
 - (iv) comparing the computed digital signature with the digital signature read from the postage indicia to verify the indicia.

- 33 (Original) The method of claim 32 further including the step of determining the mail piece's postal region based on a zip code.
- 34 (Original) The method of claim 33 further including the step of determining the mail piece's postal region based on a destination zip code.
- 35 (Original) The method of claim 33 further including the step of determining the mail piece's postal region based on a return address zip code.
- 36 (Previously Presented) The system of claim 15 wherein in response to a request to generate indicia, each of the postage generating devices generates one of the verification keys and the corresponding key ID assigned to its group based on that particular destination, and uses the generated verification key to create a digital signature for the indicia, such that when the mail is received at the distribution center servicing the predetermined destination, the key ID from the indicia and the verification keys distributed to the distribution center are used to verify the digital signature on the postage indicia.
- 37 (Previously Presented) the compute-readable media of claim 22 wherein instruction(e) further includes the instructions of
 - (i) generating one of the verification keys and the corresponding key

 ID assigned to its group based on that particular destination, and
 - (ii) using the generated verification key to create a digital signature,

and digitally signing the indicia by including the digital signature and the generated key ID on the indicia, such that when the mail is received at the predetermined destination, the verifier uses the key ID on the indicia and the distributed verifications keys to compute a digital signature, and compares the computed digital signature with the digital signature on the postage indicia to verify the postage indicia